इंटरनेट मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 13763 (1993): Pliers and Nippers for Electronics - Single Purpose Nippers - Oblique Cutting Nippers [PGD 5: Assembly Hand Tools]

"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

Act Number 22 of 2005
The Indian Parliament
RIGHT TO INFORMATION

Made Available By
Public.Resource.Org

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

BLANK PAGE

BRUTUM FULMEN

IGNORANTIA JURIS NON EXCUSAT

PROTECTED BY COPYRIGHT

(Reaffirmed 1998)

भारतीय मानक

इलैक्ट्रानिकी के लिए प्लास और चिमटियाँ – एक प्रयोजन वाली चिमटियाँ – तिरछा काटने वाली चिमटियाँ – विशिष्टि

Indian Standard

PLIERS AND NIPPERS FOR ELECTRONICS — SINGLE PURPOSE NIPPERS — OBLIQUE CUTTING NIPPERS — SPECIFICATION

UDC 621·881·4 [621·38]

© BIS 1993

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

December 1993 Price Group 1

Assembly Hand Tools Sectional Committee, PE 05

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Assembly Hand Tools Sectional Committee had been approved by the Production Engineering Division Council.

These types of nippers are generally used for cutting wires while working on electronic items.

While formulating this standard, considerable assistance has been taken from ISO 9654 : 1989 'Pliers and nippers for electronics — Single purpose nippers — Cutting nippers', issued by the International Organization for Standardization (ISO).

Indian Standard

PLIERS AND NIPPERS FOR ELECTRONICS — SINGLE PURPOSE NIPPERS — OBLIQUE CUTTING NIPPERS — SPECIFICATION

1 SCOPE

This standard covers the dimensions and other requirements for oblique cutting nippers for use while working on electronic gadgets.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	*Title*
4412 : 1981	Specification for copper wires for general engineering purposes (*first revision*)
9861 : 1981	Dimensions for wrought copper and copper alloy wires for general engineering purposes
13610 : 1993	Pliers and nippers for electronics — Nomenclature
13636 : 1993	Pliers and nippers for electronics — Technical supply conditions

3 NOMENCLATURE

For the purpose of this standard, the nomenclature as given in IS 13610 : 1993 shall apply.

4 DIMENSIONS

The dimensions of oblique cutting nippers for electronics shall be as given in Table 1.

5 HARDNESS

The hardness shall be as follows:

Body	350 to 510 *HV* (≈ 35 to 50 *HRC*)
Near Cutting Edges	510 to 700 *HV* (≈ 50 to 60 *HRC*)

NOTE — For testing the hardness requirements, refer IS 13636 : 1993.

6 GENERAL REQUIREMENTS

The material, manufacture, workmanship and finish, insulation tests, preservation and packing and sampling of the nippers shall conform to IS 13636 : 1993.

7 TESTS

The nippers shall be tested for the requirements as specified in IS 13636 : 1993. Wire cutting test shall be carried out as given in IS 13636 : 1993. The diameter of the test wire conforming to temper HD of IS 4412 : 1981 shall be as given in Table 2. The diametral tolerances on the test wire shall conform to IS 9861 : 1981.

8 DESIGNATION

The oblique cutting nippers for electronics shall be designated by its commonly used name, nominal size and number of this standard.

Example:

Oblique cutting nippers for electronics and of nominal size 112 mm shall be designated as:

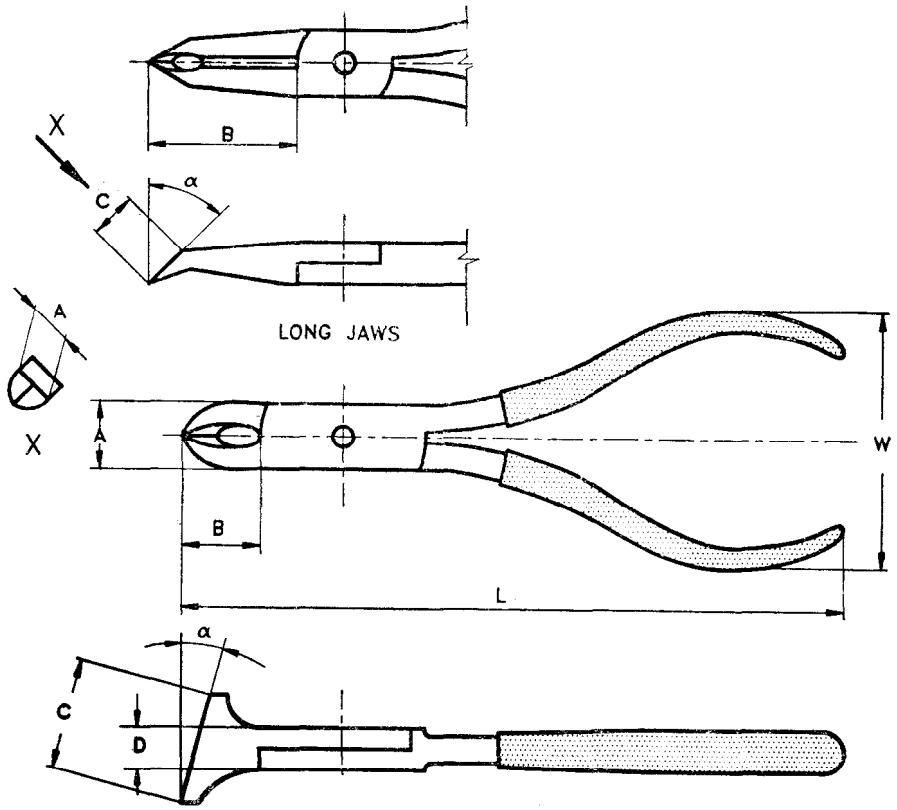
Oblique Cutting Nipper Electronics — IS 13763 — 112

9 MARKING

The nippers shall be clearly and legibly stamped with the nominal size, its use with electronics, manufacturer's name, initials or the recognized trade-mark. The year of manufacture may also be legibly stamped if required by the purchaser.

Table 1 Dimensions for Oblique Cutting Nippers

(*Clause* 4)



All dimensions in millimetres.

Length of Jaws	*L*	Tol on *L*	*A* *Max*	*B* *Max*	*C* *Max*	*D* *Max*	*W* ± 5	α ±5°
Short Jaws	112	±5	14	14	20	8	48	15°
Long Jaws	125	±7	8	25	10	8	50	45°

NOTE — Nippers without sleeves shall conform to the same dimensions.

Table 2 Diameter of Test Wire for Oblique Cutting Nippers

(*Clause* 7)

All dimensions in millimetres.

Nominal Size *L*	Diameter of Test Wire (*see* Note 1					
	Min	*Max*	*Min*	*Max*	*Min*	*Max*
	Cutting Edges (*see* Note 2)					
	Standard Bevelled		Semi-flush		Flush	
112	0·3	1·25	0·3	1·25	0·2	1
125	0·3	0·8	0·3	0·8	0·2	0·8

NOTES

1 For the other characteristics of test wire, refer IS 4412 : 1981.

2 For the design of these three types of cutting edges, refer IS 13636 : 1993.

Standard Mark

The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act. 1986* and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

*B*IS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Handbook' and 'Standards Monthly Additions'. Comments on this Indian Standard may be sent to BIS giving the following reference:

Doc : No. PE 05 (0026)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:	Telephone
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	331 01 31 331 13 75
Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700054	37 84 99, 37 85 61 37 86 26, 37 86 62
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	53 38 43, 53 16 40 53 23 84
Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113	235 02 16, 235 04 42 235 15 19, 235 23 15
Western : Manakalaya, E9 MIDC, Marol, Andheri (East) BOMBAY 400093	632 92 95, 632 78 58 632 78 91, 632 78 92

Branches : AHMADABAD. BANGALORE. BHOPAL. BHUBANESHWAR. COIMBATORE. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD. JAIPUR. KANPUR. LUCKNOW. PATNA. THIRUVANANTHAPURAM.

Printed at Printrade, New Delhi, India